## WHAT IS CLAIMED IS:

## 1. A compound having the formula I

1

and pharmaceutically acceptable salts and hydrates thereof, wherein:

A is selected from  $C_{1-3}$ alkyl optionally substituted with one to four halogen atoms,  $O(CH_2)_{1-2}$ , and  $S(CH_2)_{1-2}$ ;

Ar is aryl or heteroaryl each optionally substituted with one to four groups independently selected from Rg;

Q is selected from:

- (1) COOH,
- (2) CONRaRb,
- (3)  $C(O)NHSO_2R^c$ ,
- (4)  $SO_2NHR^a$ ,
- (5) SO<sub>3</sub>H,
- (6) PO<sub>3</sub>H<sub>2</sub>, and
- (7) tetrazolyl;

one of  $X^1$ ,  $X^2$ ,  $X^3$  or  $X^4$  is nitrogen and the others are independently selected from CH and C-Rg;

Y<sup>1</sup> is selected from -(CRdRe)<sub>a</sub>-X-(CRdRe)<sub>b</sub>-, phenylene, C<sub>3</sub>-6cycloalkylidene and

C3-6cycloalkylene, wherein a and b are integers 0-1 such that the sum of a and b equals 0, 1 or 2, and X is a bond, O, S, NRa, C(O), CH(ORa), OC(O), C(O)O, C(O)NRa, OC(O)NRa, NRaC(O), CRd=CRe or C≡C;

Y2 is selected from (CRdRe)m and CRd=CRe;

 $R^1$  is selected from H, CN,  $OR^a$ ,  $S(O)_nC_{1-6}$ alkyl and  $C_{1-6}$ alkyl optionally substituted with one to six groups independently selected from halogen,  $OR^a$  and  $S(O)_nC_{1-6}$ alkyl;

R<sup>2</sup> is selected from H and C<sub>1</sub>-6alkyl optionally substituted with one to six halogen; or

R<sup>1</sup> and R<sup>2</sup> together represent an oxo; or

 $R^1$  and  $R^2$  taken together form a 3- or 4- membered ring containing 0 or 1 heteroatom selected from  $NR^f$ , S, and O optionally substituted with one or two groups selected from F, CF3 and CH3;

 $R^3$  is selected from H and  $C_{1-6}$ alkyl optionally substituted with one to six groups independently selected from  $OR^a$  and halogen;

 $R^a$  and  $R^b$  are independently selected from H,  $C_{1-10}$ alkyl,  $C_{2-10}$ alkenyl,  $C_{2-10}$ alkynyl, Cy and Cy  $C_{1-10}$ alkyl, wherein said alkyl, alkenyl, alkynyl and Cy are optionally substituted with one to six substituents independently selected from halogen, amino, carboxy,  $C_{1-4}$ alkyl,  $C_{1-4}$ alkoxy, aryl, heteroaryl, aryl  $C_{1-4}$ alkyl, hydroxy,  $C_{1-4}$ 0 C(O) $C_{1-4}$ alkyl, OC(O) $C_{1-4}$ 1, and aryloxy; or  $C_{1-4}$ 1 and  $C_{1-4}$ 2 and  $C_{1-4}$ 3 and  $C_{1-4}$ 3 and  $C_{1-4}$ 4 alkyl, hydroxy are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and  $C_{1-4}$ 3 and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen, sulfur and  $C_{1-4}$ 4 alkyl, hydroxy are attached from oxygen.

R<sup>c</sup> is selected from C<sub>1</sub>-6alkyl optionally substituted with one to six halogen, aryl and heteroaryl, wherein said aryl and heteroaryl are optionally substituted with one to three groups selected from halogen, OC<sub>1</sub>-6alkyl, O-haloC<sub>1</sub>-6alkyl, C<sub>1</sub>-6alkyl and haloC<sub>1</sub>-6alkyl;

 $R^d$  and  $R^e$  are independently H, halogen, aryl, heteroaryl,  $C_{1-6}$ alkyl or halo $C_{1-6}$ alkyl;  $R^f$  is selected from H,  $C_{1-6}$ alkyl, halo $C_{1-6}$ alkyl, Cy, C(O) $C_{1-6}$ alkyl, C(O)halo $C_{1-6}$  alkyl, and C(O)-Cy;

## Rg is selected from

- (1) halogen,
- (2) CN,
- (3) C<sub>1</sub>-6alkyl optionally substituted with one to eight groups independently selected from aryl, heteroaryl, halogen, NRaRb, C(O)Ra, C(ORa)RaRb, SRa and ORa, wherein aryl, heteroaryl and alkyl are each optionally substituted with one to six groups independently selected from halogen, CF<sub>3</sub>, and COOH,
- (4) C<sub>2-6</sub>alkenyl optionally substituted with one to six groups independently selected from halogen and OR<sup>a</sup>,
- (5) Cy
- (6)  $C(O)R^a$ ,

- (7)  $C(O)OR^a$ ,
- (8) CONRaRb,
- (9) OCONRarb,
- (10) OC<sub>1</sub>-6alkyl, wherein alkyl is optionally substituted with one to six substituents selected from halogen, aryl, heteroaryl, OH and OC(O)Ra,
- (11) O-Cy,
- (12) S(O)<sub>n</sub>C<sub>1</sub>-6alkyl, wherein alkyl is optionally substituted with one to six substituents selected from halogen, aryl, heteroaryl, OH, and OC(O)Ra,
- (13)  $S(O)_n$ -Cy,
- (14)  $-NRaS(O)_nRb$ ,
- (15) -NRaRb,
- (16) -NRaC(O)Rb,
- (17) -NRaC(O)ORb,
- (18) -NRaC(O)NRaRb.
- (19)  $S(O)_nNR^aR^b$ ,
- (20) NO<sub>2</sub>,
- (21) C5-8cycloalkenyl,

wherein Cy is optionally substituted with one to eight groups independently selected from halogen, C(O)Ra, ORa, C1-3alkyl, aryl, heteroaryl and CF3;

 $R^i$  and  $R^j$  are independently selected from hydrogen,  $C_{1-10}$ alkyl,  $C_{2-10}$  and  $C_{2-10}$ alkyl; or  $R^i$  and  $R^j$  together with the nitrogen atom to which they are attached form a ring of 5 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and  $N-R^f$ ;

Cy is selected from heterocyclyl, aryl, and heteroaryl; m is 1, 2 or 3; and n is 0, 1 or 2.

- 2. A compound of Claim 1 wherein A-Q is CH<sub>2</sub>CO<sub>2</sub>H.
- 3. A compound of Claim 1 wherein Ar is naphthyl or optionally substituted phenyl wherein said substituents are 1 or 2 groups independently selected from Rg.
  - 4. A compound of Claim 1 wherein Y<sup>1</sup> is selected from C(O) and S.

5. A compound of Claim 1 wherein one of  $X^1$ ,  $X^2$  and  $X^3$  is nitrogen and the others are independently CH or CRg, and  $X^4$  is CRg.

- 6. A compound of Claim 1 wherein one of  $X^1$ ,  $X^2$  and  $X^3$  is nitrogen and the others are CH, and  $X^4$  is C-S(O)<sub>n</sub>-C<sub>1</sub>-6alkyl or C-C<sub>1</sub>-6alkyl optionally substituted with OR<sup>a</sup>.
  - 7. A compound of Claim 1 wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are each hydrogen.
  - 8. A compound of Claim 1 wherein Y<sup>2</sup> is selected from CH<sub>2</sub> and CH<sub>2</sub>CH<sub>2</sub>.
  - 9. A compound of Claim 1 represented by the formula Ia:

$$X^{2:N}$$
 $X^{2:N}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{2:N}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{4}$ 
 $X^{4}$ 
 $X^{5}$ 
 $X^{5}$ 
 $X^{7}$ 
 $X^{7}$ 

Ιa

wherein X<sup>2</sup> and X<sup>3</sup> are independently CH or C-Rg, A, Ar, Q, Y<sup>1</sup>, R<sup>1</sup>, R<sup>2</sup>, m and Rg are as defined in Claim 1.

- 10. A compound of Claim 9 wherein  $X^2$  and  $X^3$  are each CH,  $R^1$  and  $R^2$  are each H, and A-Q is CH<sub>2</sub>CO<sub>2</sub>H.
- 11. A compound of Claim 9 wherein Y<sup>1</sup>-Ar is S-phenyl optionally substituted with 1 or 2 groups independently selected from halogen, C<sub>1-6</sub> alkyl and trifluoromethyl.
  - 12. A compound of Claim 1 represented by the formula Ib:

$$\begin{array}{c|c}
R^1 & R^2 \\
X^2 & X^1 & N & (CH_2)_m \\
N & & & A-Q \\
\hline
R^g & & & & & & \\
R^g & & & & & & \\
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R^1 & & & & & \\
N & & & & & & \\
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R^1 & & & & & & \\
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R^1 & & & & & & \\
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wherein  $X^1$  and  $X^2$  are independently CH or C-Rg, A, Ar, Q,  $Y^1$ ,  $R^1$ ,  $R^2$ , m and Rg are as defined in Claim 1.

- 13. A compound of Claim 12 wherein  $X^1$  and  $X^2$  are each CH,  $R^1$  and  $R^2$  are each H, and A-Q is CH2CO2H.
- 14. A compound of Claim 13 wherein  $Y^1$ -Ar is S-phenyl optionally substituted with 1 or 2 groups independently selected from halogen,  $C_{1-6}$  alkyl and trifluoromethyl.
  - 15. A compound of Claim 1 represented by the formula Ic:

$$X^{2^{2}}X^{1}$$
 $X^{3}$ 
 $X^{4}$ 
 $Y^{1}$ 
 $Y^{1}$ 
 $Y^{1}$ 

Ic

wherein one of  $X^1$ ,  $X^2$  and  $X^3$  is N and the others are each CH,  $X^4$  is CRg, m is 1 or 2, and Ar,  $Y^1$  and m are as defined in Claim 1.

16. A compound of Claim 15 wherein Ar is phenyl optionally substituted with 1 or 2 groups independently selected from halogen, C<sub>1-3</sub>alkyl and trifluoromethyl.

- 17. A compound of Claim 15 wherein  $Y^1$  is S or C(O).
- 18. A compound of Claim 15 wherein  $X^4$  is selected from C-S(O)<sub>n</sub>-C<sub>1-6</sub>alkyl and C-C<sub>1-6</sub>alkyl optionally substituted with ORa.
- 19. A compound of Claim 15 wherein  $Y^1$ -Ar is S-phenyl optionally substituted with 1 or 2 groups independently selected from halogen,  $C_{1-6}$ alkyl and trifluoromethyl;  $X^1$  and  $X^2$  are each CH,  $X^3$  is N, m is 1 or 2, and  $X^4$  is C-SO<sub>2</sub>C<sub>1-6</sub>alkyl or C<sub>1-6</sub>alkyl.
  - 20. A compound of Claim 1 selected from:

X1	Х2	Х3	X4	Ar	Y1	m
N	CH	СН	C(SO <sub>2</sub> CH <sub>3</sub> )	4-Cl-Ph	S	2
N	СН	CH	C(SCH <sub>3</sub> )	4-Cl-Ph	S	2
N	СН	CH	C(SO <sub>2</sub> CH <sub>3</sub> )	3,4-diCl-Ph	S	2
N	СН	CH	C(SO <sub>2</sub> CH <sub>3</sub> )	4-Cl-Ph	C(O)	2
N	CH	CH	. C(SO <sub>2</sub> CH <sub>3</sub> )	4-Br-Ph	S	2
CH	СН	N	C(SO <sub>2</sub> CH <sub>3</sub> )	3,4-diCl-Ph	S	1
CH	СН	N	C(SO <sub>2</sub> CH <sub>3</sub> )	3,4-diCl-Ph	S	2
N	СН	CH	C(SO <sub>2</sub> CH <sub>3</sub> )	4-CF3-Ph	S	2
N	CH	CH	C(SO <sub>2</sub> CH <sub>3</sub> )	2-Cl-4-F-Ph	S	2
N	CH	CH	C(SO <sub>2</sub> CH <sub>3</sub> )	2-naphthyl	S	2
. N	CH	CH	C(SO <sub>2</sub> CH <sub>3</sub> )	2,3-diCl-Ph	S	2
N	CH	CH	C(SO <sub>2</sub> CH <sub>3</sub> )	4-CH3-Ph	S	2
N	CH	СН	C(SO <sub>2</sub> CH <sub>3</sub> )	Ph	S	2
N	CH	CH	C(SO <sub>2</sub> CH <sub>3</sub> )	2,4-diCl-Ph	S	2
СН	N	СН	C(SO <sub>2</sub> CH <sub>3</sub> )	4-Cl-Ph	S	2

X1	X2	х3	X4	·Ar	<b>Y</b> 1	m
CH	CH	N	C(SO <sub>2</sub> CH <sub>3</sub> )	4-Cl-Ph	S	2
N	C(CH3)	СН	C(SO <sub>2</sub> CH <sub>3</sub> )	4-Cl-Ph	S	2
N	СН	C(CH3)	C(SO <sub>2</sub> CH <sub>3</sub> )	4-Cl-Ph	S	2
СН	C(CH3)	N	C(SO <sub>2</sub> CH <sub>3</sub> )	4-Cl-Ph	S	2
C(CH3)	СН	N	C(SO <sub>2</sub> CH <sub>3</sub> )	4-Cl-Ph	S	2
N	СН	СН	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-F-Ph	S	2
N	СН	СН	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-Cl-Ph	S	2
N	CH	CH	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	2,4-diCl-Ph	S	2
N	CH	CH	C(CH(CH3)2)	4-Br-Ph	S	2
N	CH	CH	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	2-Cl-4-F-Ph	S	2
N	CH	СН	C(CH(CH3)2)	3,4-diCl-Ph	S	2
CH	CH	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-F-Ph	S	2
CH .	. CH	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-Cl-Ph	S	2
СН	CH	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	2,4-diCl-Ph	S	2
CH	CH	N	C(CH(CH3)2)	4-Br-Ph	S	2.
СН	CH	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	2-Cl-4-F-Ph	S	2
CH	CH	N	C(CH(CH3)2)	3,4-diCl-Ph	S	2
CH	СН	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-F-Ph	S	1
СН	СН	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-Cl-Ph	S	1
CH	CH	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	2,4-diCl-Ph	S	1
CH	CH	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-Br-Ph	S	1
CH	CH	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	2-Cl-4-F-Ph	S	1
СН	CH	N	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	3,4-diCl-Ph	S	1
CH	N	СН	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-F-Ph	S	1
CH	N	СН	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-Cl-Ph	S	1
CH	N	CH	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	2,4-diCl-Ph	S	1
CH	N	CH	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-Br-Ph	S	1
СН	N	CH	C(CH(CH3)2)	2-Cl-4-F-Ph	S	1
CH	N	ĊH.	C(CH(CH3)2)	3,4-diCl-Ph	S	1
СН	N	СН	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-F-Ph	S	2
CH	N	СН	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-Cl-Ph	S	2
СН	N	СН	C(CH(CH3)2)	2,4-diCl-Ph	S	2

X1	Х2	х3	X4	Ar	<b>Y1</b>	m
СН	N	CH	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	4-Br-Ph	S	2
CH	N	CH	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	2-Cl-4-F-Ph	S	2
CH	N	CH	C(CH(CH <sub>3</sub> ) <sub>2</sub> )	3,4-diCl-Ph	S	2
N	CH	CH	C(CH(OCH <sub>3</sub> )	4-Cl-Ph	S	2
			(CH <sub>2</sub> CH <sub>3</sub> ))			
N	CH	CH	C(CH(OCH <sub>3</sub> )	4-Cl-Ph	S	1
			(CH <sub>2</sub> CH <sub>3</sub> ))		Ì	
CH	N	CH	C(CH(OCH <sub>3</sub> )	4-Cl-Ph	S	1
			(CH <sub>2</sub> CH <sub>3</sub> ))	,,		
CH	N	CH	C(CH(OCH <sub>3</sub> )	4-Cl-Ph	S	2
			(CH <sub>2</sub> CH <sub>3</sub> ))			
CH	CH	N	C(CH(OCH <sub>3</sub> )	4-Cl-Ph	S	2
			(CH <sub>2</sub> CH <sub>3</sub> ))			
СН	CH	N	C(CH(OCH <sub>3</sub> )	4-Cl-Ph	S	1
			(CH <sub>2</sub> CH <sub>3</sub> ))			
N	СН	CH	C(C(CH3)3)	4-Cl-Ph	S	2
N	СН	CH	C(C(CH3)3)	3,4-diCl-Ph	S	2
N	CH	СН	C(C(CH3)3)	4-Br-Ph	S	2
N	CH	CH	C(C(CH3)3)	4-CF3-Ph	S	2
N	CH	CH	C(C(CH3)3)	2-Cl-4-F-Ph	S	2
N	CH	CH	C(C(CH3)3)	2-naphthyl	S	2
N	CH	СН	C(C(CH3)3)	2,3-diCl-Ph	S	2
N	СН	CH	C(C(CH3)3)	4-CH3-Ph	S	2
N	СН	CH	C(C(CH <sub>3</sub> ) <sub>3</sub> )	Ph	S	2
N	СН	СН	C(C(CH3)3)	2,4-diCl-Ph	S	2

ı			
	Ar	$\mathbf{v}_1$	

Ar	<b>Y</b> 1
5-tetrazolyl	S
2-pyrrolyl	S
1,2,4-triazoly-3-yl	S
1,2,3-triazol-4-yl	S
5-imidazolyl	S
4-pyrazolyl	S
5-pyrazolyl	S
(1H,4H)-5-oxo-1,2,4-triazol-3-yl	S
4-isothiazolyl	· S
1,2,5-thiadiazol-5-yl	S
1,2,5-oxadiazol-5-yl	S
3-furanyl	S
1,2,3-thiadiazol-4-yl	S
1,2,3-oxadiazol-4-yl	. S
4-isoxazolyl	S
3-thienyl	S
4-oxazolyl	S
4-thiazolyl	S
(5H)-2-oxo-5-furanyl	S
(5H)-2-oxo-4-furanyl	S
1,2,4-oxadiazol-5-yl	S
3-pyridyl	S
2-pyrazinyl	S
5-pyrimidinyl	S
2-indolyl	S
2-benzothienyl	S
2-benzofuranyl	S
4-oxo-benzopyran-2-yl	S
2-quinolinyl	S
2-benzimidazolyl	S
2-benzoxazolyl	S
2-benzothiazolyl	S

Ar	Y1
1-benzotriazolyl	CH <sub>2</sub> S
thieno[2,3-b]pyridin-2-yl	S

- 21. A pharmaceutical composition comprising a compound of formula I as defined in any one of Claims 1 to 20, or a pharmaceutically acceptable salt or hydrate thereof, and a pharmaceutically acceptable carrier.
- 22. The composition of Claim 21 further comprising a second active ingredient selected from an antihistamine, a leukotriene antagonist and a leukotriene biosynthesis inhibitor.
- 23. A method for the treatment of prostaglandin D2 mediated diseases which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound of Claim 1.
- 24. A method for the treatment of nasal congestion which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound of Claim 1.
- 25. A method for the treatment of allergic asthma which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound of Claim 1.
- 26. A method for the treatment of allergic rhinitis which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound of Claim 1.

27. A compound of formula I, as defined in any one of Claims 1 to 20, or a pharmaceutically acceptable salt or soluate thereof, for use in medicinal therapy.

5 28. A compound salt or hydrate of Claim 27 for use in treatment of prostaglandin D2 mediated diseases.

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- 29. Use of a compound of formula I, as defined in any one of Claims 1 to 20, or a pharmaceutically acceptable salt or soluate thereof, in the manufacture of a medicament for treatment of nasal congestion, allergic asthma or allergic rhinitis.
- 30. A prostaglandin receptor antagonist pharmaceutical composition comprising an acceptable antagonistic amount of a compound of formula I, as defined in any one of Claims 1 to 20, or a pharmaceutically acceptable salt or soluate thereof, in association with a pharmaceutically acceptable carrier therefor.